

1096-35-1521      **Stephen Robinson\*** ([sbr@wfu.edu](mailto:sbr@wfu.edu)), 2243 Winterberry Dr, Winston Salem, NC 27106, and  
**Pavel Drabek.** *Resonance problems with respect to the Fucik Spectrum.*

We consider the boundary value problem

$$-\Delta u = \alpha u^+ - \beta u^- + g(u) + h \text{ in } \Omega, u = 0 \text{ on } \partial\Omega,$$

where  $\Delta$  is the Laplace operator,  $(\alpha, \beta)$  is in the Fucik Spectrum,  $g : R \rightarrow R$  is bounded and continuous, and  $\Omega$  is a bounded domain in  $R^n$ . We prove an existence theorem subject to a Landesman-Lazer type condition on the primitive of  $g$ . The proof relies on a variational characterization of the Fucik Spectrum due to Castro and Chang. (Received September 16, 2013)